

**Notice of Allowability**

Application No.

09/517,608

Examiner

Nga B. Nguyen

Applicant(s)

WALMSLEY, SIMON ROBERT

Art Unit

3692

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment filed on October 12, 2006.
2. ☒ The allowed claim(s) is/are 1-5,8,11-18,21 and 24-27.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                                 |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance              |
|  | 9. <input type="checkbox"/> Other _____.  |

### **DETAILED ACTION**

1. This Office Action is the answer to the Amendment filed on October 12, 2006, which paper has been placed of record in the file.
2. Claims **1-5, 8, 11-18, 21, and 24-27** are pending in this application.

### ***Examiner's Amendment***

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in the interview with Mr. Pascale Hair on December 6, 2006.

***Claims 28 and 29 are canceled.***

### ***Allowable Subject Matter/Reasons for Allowance***

4. Claims **1** and **14** are allowed over the prior arts cited records.

The closets prior arts are:

1) Shigenaga (US 4,710,613) discloses an identification system wherein validity between a first unit and a second unit is identified when the first unit is electrically communicated with the second unit. The first unit includes a generator for generating identification code information, a calculator for calculating, based upon the identification code information, an estimation time required for processing the identification code

information in the second unit, a time counter for measuring an actual time required for completely processing the identification code information in the second unit, and an unit for identifying validity between said first and second units by comparing the actual processing time to the estimation processing time. The second unit includes at least a processor for processing the identification code information sent from the first unit.

2) Lee (US 5,923,759) discloses a system for controlling requests from portable electronic cards of differing in-card electronic processing capabilities, and including a central processing module, associated memory, and an operating system, comprising a plurality of card units into which data cards and cards having internal data processing may be inserted; security module means for authenticating cards inserted into the plurality of card units and for securely exchanging data with the authenticated cards; and means, separate from the security module means, for processing data received from the security module in accordance with an application program.

Therefore, it is clear from the description of Shigenaga's and Lee's inventions that the prior arts do not considered the possibility of: providing a printer containing a trusted authentication chip and a printer consumable containing an untrusted authentication chip; applying, in the untrusted authentication chip, an asymmetric encrypt function to the second decrypted outcome together with an original data message read from the untrusted authentication chip using the second secret key to produce a first encrypted outcome; passing the second encrypted outcome together with the original data message to the trusted authentication chip; decrypting, in the

trusted authentication chip, the second encrypted outcome with an asymmetric decrypt function using the first key to produce a decrypted random number and a decrypted data message, as included in claim 1; a printer containing a trusted authentication chip, a printer consumable containing an untrusted authentication chip; the read function applies the symmetric encrypt function to the first decrypted outcome together with an original data message read using the second secret key to produce a second encrypted outcome, also retuning the second encrypt outcome together with the original data message; the test function operating to decrypt the second encrypt outcome using the first key to produce a decrypted random number and a decrypted data message without knowledge of the second secret key, as included in claim 14.

5. Claims (2-5, 8, 11-13) and (15-18, 21, 24-27), are allowed because they are dependent claims of the allowable independents 1 and 14 above, in that order.

### **Conclusion**

6. Claims 1-5, 8, 11-18, 21, and 24-27 are allowable.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Nga B. Nguyen whose telephone number is (571) 272-6796. The examiner can normally be reached on Monday-Thursday from 9:00AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard E. Chilcot can be reached on (571) 272-6777.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 306-1113.

8. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

C/o Technology Center 3600

Washington, DC 20231

Or faxed to:

(703) 872-9306 (for formal communication intended for entry),

or

(571) 273-0325 (for informal or draft communication, please label "PROPOSED" or "DRAFT").

Hand-delivered responses should be brought to Knox Building, 501 Dulany Street, Alexandria, VA, First Floor (Receptionist).



NGA NGUYEN  
PRIMARY EXAMINER

December 7, 2006